

+

+

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

**Complete if Known**

<b>Application Number</b>	10/071,980
<b>Filing Date</b>	February 6, 2002
<b>First Named Inventor</b>	Andrew L. Norrell
<b>Group Art Unit</b>	2661
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	PA1634US

Sheet	1	of	3
-------	---	----	---

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
JAT		1,711,653		Quarles, D. A.	05-07-1929	
JAT		3,180,938		Glomb	04-27-1965	
JAT		3,476,883		Birck, M. J.	11-04-1969	
JAT		3,548,120		Tarasoff	12-15-1970	
JAT		3,873,936		Cho	03-25-1975	
JAT		3,944,723		Fong	03-16-1976	
JAT		3,962,549		Zuk	06-08-1976	
JAT		4,025,737		Brewer	05-24-1977	
JAT		4,131,859		Valle	12-26-1978	
JAT		4,242,542		Kimbrough	12-30-1980	
JAT		4,392,225		Wortman	07-05-1983	
JAT		4,462,105		Wagner et al.	07-24-1984	
JAT		4,583,220		Blackburn et al.	04-15-1986	
JAT		4,633,459		Blackburn	12-30-1986	
JAT		4,656,628		Tan	04-07-1987	
JAT		4,667,319		Chum	05-19-1987	
JAT		4,766,606		Bardutz et al.	08-23-1988	
JAT		5,095,528		Leslie et al.	03-10-1992	
JAT		5,181,198		Lechleider	01-19-1993	
JAT		5,394,401		Patrick et al.	02-28-1995	

## FOREIGN PATENT DOCUMENTS

[illegible]

*[Signature]*

6/6/2005

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

+

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

*(use as many sheets as necessary)*

Sheet 2 of 3

<b>Application Number</b>	10/071,980
<b>Filing Date</b>	February 6, 2002
<b>First Named Inventor</b>	Andrew L. Norrell
<b>Group Art Unit</b>	2661
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	PA1634US

002  
rell

**RECEIVED**  
MAY 17 2007  
Technology Center 2000

ges, Columns, Lines,  
Where Relevant  
ssages or Relevant  
Figures Appear

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date  
Considered

6/6/2005

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

<b>Application Number</b>	10/071,980
<b>Filing Date</b>	February 6, 2002
<b>First Named Inventor</b>	Andrew L. Norrell
<b>Group Art Unit</b>	2661
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	PA1634US

**(use as many sheets as necessary)**

Sheet 3 of 3

**Attorney Docket Number** | **PA1634US**

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

[illegible]

**Examiner  
Signature**

Date Considered

6/6/2005

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

+

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

**(use as many sheets as necessary)**

Sheet	1	of	1
-------	---	----	---

**Complete if Known**

<b>Application Number</b>	10/071,980
<b>Filing Date</b>	February 6, 2002
<b>First Named Inventor</b>	Andrew L. Norrell
<b>Group Art Unit</b>	2661
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	PA1634US

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date Considered

6/6/2005

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 6491.P044	Application Number: 10/071,980
Page 1 of 6		First Named Inventor: Andrew L. Norrell	
		Filing Date: 2/6/2002	



U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (If known)			
JAT		4,970,722		Preschutti	11/13/1990	
JAT		5,912,895		Terry et al.	6/15/1999	
JAT		4,277,655		Surprenant	7/7/1981	
JAT		4,259,642		Derby	3/31/1981	
JAT		5,892,756		Murphy	4/6/1999	
JAT		6,154,524		Bremer	11/28/2000	
JAT		6,005,873		Amit	12/21/1999	
JAT		6,091,722		Russell et al.	7/18/2000	
JAT		6,084,931		Powell, II et al.	7/4/2000	
JAT		5,623,485		Bi	4/22/1997	
JAT		6,351,493	B1	Tarraf	2/26/2002	
JAT		6,343,114	B1	Chea, Jr.	1/29/2002	
JAT		6,058,162		Nelson et al.	5/2/2000	

FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup> Code <sup>5</sup>	Number <sup>4</sup>	Kind  (If known)				
					RECEIVED			
					FEB 23 2004			
					Technology Center 2600			

RECEIVED

FEB 23 2004

Technology Center 2600

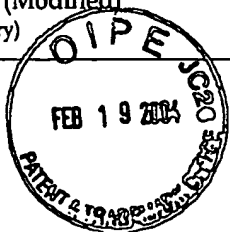
Examiner Signature		Date Considered	2/6/05
--------------------	--	-----------------	--------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 6491.P044	Application Number: 10/071,980
Page 2 of 6		First Named Inventor: Andrew L. Norrell	
		Filing Date: 2/6/2002	



U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (If known)			
JAT		US 2002/0001340	A1	Shenoi et al.	1/3/2002	
JAT		US 2002/0106076	A1	Norrell et al.	8/8/2002	
JAT		5,929,402		Charles et al.	7/27/1999	
JAT		6,281,454	B1	Charles et al.	8/28/2001	
JAT		761,995		Pupin	6/7/1904	
JAT		US 2002/0113649	A1	Tambe et al.	8/22/2002	
JAT		3,848,098		Pinel	11/12/1974	
JAT		6,226,322	B1	Mukherjee	5/1/2001	
JAT		6,345,072	B1	Liu et al.	2/5/2002	
JAT		6,507,606	B2	Shenoi et al.	1/14/2003	
JAT		6,546,100	B1	Drew	4/8/2003	
JAT		6,262,972	B1	McGinn et al.	7/17/2001	
JAT		5,724,344		Beck	3/3/1998	

FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup> Code <sup>5</sup>	Number <sup>4</sup>	Kind  (If known)				
					RECEIVED			
					FEB 23 2004			
					Technology Center 2600			

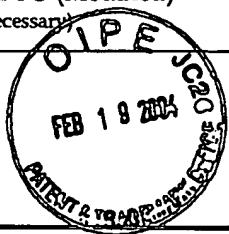
Examiner Signature		Date Considered	6/6/2005
--------------------	--	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 6491.P044	Application Number: 10/071,980
Page 3 of 6		First Named Inventor: Andrew L. Norrell	
		Filing Date: 2/6/2002	



U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind  (If known)			
JAT		6,091,713		Lechleider et al.	7/18/2000	
JAT		3,578,914		Simonelli	5/18/1971	
JAT		5,790,174		Richard, III et al.	8/4/1998	
JAT		6,029,048		Treatch	2/22/2000	
JAT		4,768,188		Barnhart et al.	8/30/1988	
JAT		4,788,657		Douglas et al.	11/29/1988	
JAT		5,049,832		Cavers	9/17/1991	
JAT		5,736,949		Ong et al.	4/7/1998	
JAT		5,859,895		Pomp et al.	1/12/1999	
JAT		5,991,311		Long et al.	11/23/1999	
JAT		6,047,222		Burns et al.	4/4/2000	
JAT		6,128,300		Horton	10/3/2000	
JAT		6,195,414	B1	Simmons et al.	2/27/2001	


FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup> Code <sup>3</sup>	Number <sup>4</sup>	Kind  (If known)				
					RECEIVED  FEB 23 2004			
					Technology Center 2600			

Examiner Signature		Date Considered	8/6/2005
--------------------	--	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 6491.P044	Application Number: 10/071,980
Page 4 of 6		First Named Inventor: Andrew L. Norrell	
		Filing Date: 2/6/2002	

U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind  (If known)			
JAT		6,246,695	B1	Seazholtz et al.	6/12/2001	
JAT		6,263,047	B1	Randle et al.	7/17/2001	
JAT		6,266,348	B1	Gross et al.	7/24/2001	
JAT		6,266,395	B1	Liu et al.	7/24/2001	
JAT		6,370,188	B1	Wu et al.	4/9/2002	
JAT		6,236,664	B1	Erreygers	5/22/2001	
JAT		6,385,253	B1	Swisher	5/7/2002	
JAT		6,385,252	B1	Gradl	5/7/2002	
JAT		6,385,234	B1	Ashley	5/7/2002	
JAT		6,208,670	B1	Milliron et al.	3/27/2001	
JAT		5,455,538		Kobayashi et al.	10/3/1995	
JAT		5,526,343		Aizawa et al.	6/11/1996	
JAT		5,726,980		Rickard	3/10/1998	

FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
		Office <sup>3</sup> Code <sup>5</sup>	Number <sup>4</sup>	Kind  (If known)				
					RECEIVED			
					FEB 23 2004			
					Technology Center 2600			

Examiner Signature		Date Considered	6/6/2005
--------------------	---	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.





[illegible]

## Technology Center 2600

Examiner Signature		Date Considered	6/6/2005
-----------------------	---	--------------------	----------

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.**